

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Mail Stop Appeal Brief - Patents
Commissioner for Patents
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AMENDED APPEAL BRIEF

Dear Sir:

In response to the Notification of Non-Compliant Appeal Brief mailed on January 29, 2009, attached herewith is an amended claim appendix.

Respectfully submitted,

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I. CLAIM APPENDIX

1. (Previously presented) A wearable heart monitoring system for monitoring of a cardiac arrhythmia, said system comprising:
 - ECG sensors configured to obtain patient heart data,
 - a conditioning and interpreting circuitry that processes the heart data, the conditioning and interpreting circuitry comprising:
 - a real-time evaluator that measures and analyzes a histogram of a temporal distribution of an interval between successive corresponding characteristic peaks in an ECG spectrum during a plurality of successive heart cycles; and
 - an alarm generator that generates an alarm based on the analysis of said histogram.
2. (Previously presented) The system according to claim 1, further comprising an RF-link that transmits a further alarm to a remote monitoring station.
3. (Previously presented) The system according to claim 1, wherein the ECG sensors are housed on an elastic belt.
4. (Previously presented) The system according to claim 3 further comprising electrical wiring for arranging electrical connections of the monitoring system, said wiring being integrated in the belt.
5. (Previously presented) The system according to claim 4, wherein a wire material has substantially a same elasticity as a material constituting the elastic belt.
6. (Previously presented) The system according to claim 5, wherein said system comprises at least two electrodes.
7. (Previously presented) The monitoring system according to claim 1, wherein said system further comprises a motion sensor.

8. (Previously presented) A method for alerting a patient for a substantial probability of a cardiac arrest event, said method being based on results of continuous monitoring of a cardiac activity by means of a cardiac monitoring system comprising a set of electrodes, a conditioning and interpreting circuitry and alarm, generator, said method comprising:

performing a continuous acquisition of data related to the cardiac activity with the electrodes;

processing the data for extracting a characteristic parameter with the conditioning and interpreting circuitry, wherein the conditioning and interpreting circuitry is located on a physiological sensing belt in operative communication with the patient;

performing a classification of the extracted characteristic parameter;

generating an alarm with the alarm generator when the characteristic parameters falls within an alarm-relevant category.

9. (Previously presented) The method according to claim 8, wherein an alarm with a high priority is generated in case of a sudden cardiac arrest.

10. (Previously presented) The method according to claim 8, wherein the alarm generator is located on the belt.

11-20. (Withdrawn)